

P-K STORM™

Boiler Models ST-5000 & ST-6000
Natural Gas with NURO® Control

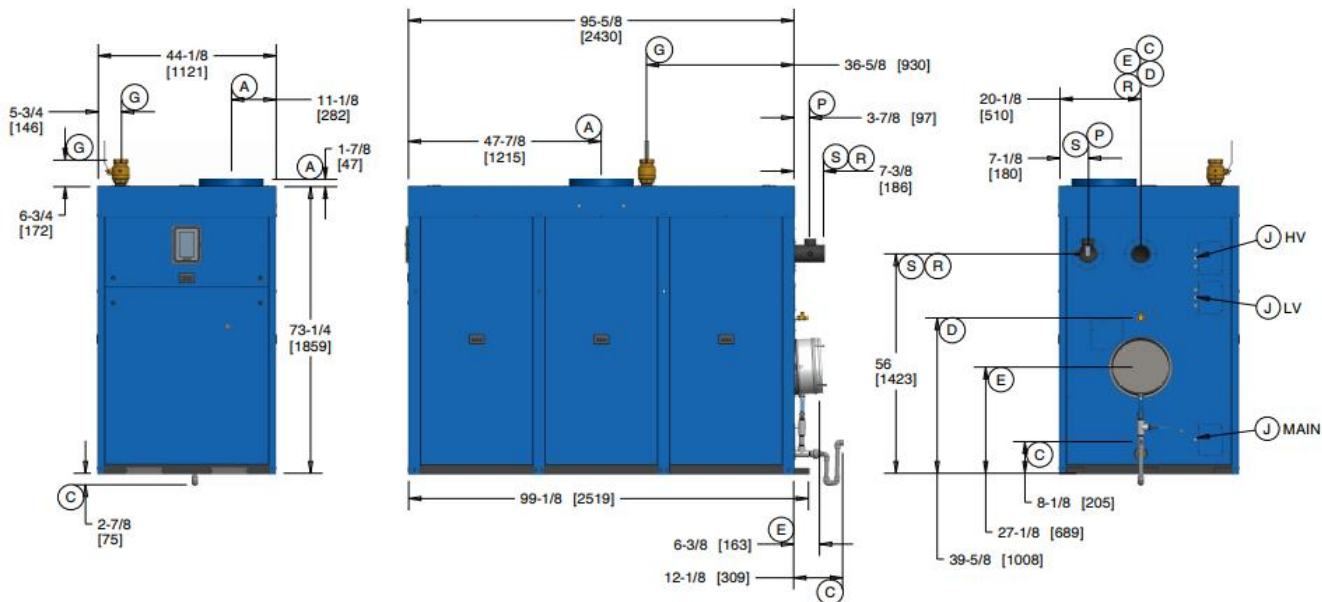


Rep Name: _____

Email: _____

Phone Number: _____

Date: _____ / _____ / _____



Primary dimensions are in inches. The secondary dimensions, [in brackets], are in millimeters.

This boiler requires Category IV venting (condensing-positive pressure) or Category II venting† (condensing -negative pressure as defined in ANSI Z223.1/NFPA 54/CSA-B.149 latest edition.

†Category II venting must include the optional combustion air damper

| BOILER CONNECTIONS | |
|--------------------|--|
| A | Combustion Air Inlet 16" dia. stub |
| C | Condensate Drain 3/4" CPVC |
| E | Exhaust Vent 14" dia. |
| F | Heat Exchanger Drain 3/4" hose |
| G | Natural Gas 2-1/2" NPT-F |
| H | Wiring Junction Boxes inside cabinet |
| P | Pressure Relief Valve see list for options |
| R | Boiler Return, Victaulic® clamp 4" pipe, grooved |
| S | Boiler Supply, Victaulic® clamp 4" pipe, grooved |
| X | Anchor Bolt Locations (4) 5/8" Bolt Holes (2 inside cabinet) |

| MODEL SELECTION | |
|--------------------------------------|---|
| Water Heaters | <input type="checkbox"/> ST-5000 <input type="checkbox"/> ST-6000 |
| Fuel Options | <input type="checkbox"/> Natural Gas |
| Min Inlet Gas Pressure | 3.5" w.c. |
| Max Inlet Gas Pressure | 14" w.c. |
| Max Input (BTU/hr) | 4,999,999 |
| Max Output (BTU/hr) | 6,000,000 |
| Boiler HP | 149.3 |
| Min Input (BTU/hr) | 500,000 |
| Min Output (BTU/hr) | 600,000 |
| Turndown Ratio | 10:1 |
| Operating Weight | 3700 lbs. |
| Shipping Weight | 3200 lbs. |
| Boiler Water Content | 60 gallons |
| Shipping Dimensions | 110" x 48" x 80" |
| Power Supply | <input type="checkbox"/> 208-240V/480V 3ph 60 Hz |
| Operating Current | 25/15 Amps |
| Recommended Minimum Circuit Capacity | 30/15 Amps |

| BOILER CONTROLS | |
|--|--|
| ASME CSD-1 is standard | |
| Complies with: GE GAP (IRI) guidelines GAP.4.1.0 and GAP.4.1.3 | |
| FM Global 6-4 Section 1.0 | |
| Main Gas Train with Dual Shut-off | |
| Integrated Boiler Control, NURO Series | |
| Operating Thermostat, 42°-195°F (5.6°-91°C) | |
| High Limit Thermostat, Manual Reset, 100°-200°F (38°-93°C) | |
| High Limit Thermostat, Auto Reset, Fixed 200°F (93°C) | |
| High Exhaust Back Pressure Switch | |
| Flow Switch, Paddle Type & LWCO, Probe Type | |
| Combustion Air Proving Switch, Differential Pressure Type | |
| Combustion Blower, Variable Speed, 8000 Watt | |

| PRESSURE RELIEF VALVE | |
|--|--------------------|
| Shipped Loose for Field Installation | |
| <input type="checkbox"/> 30 PSIG 2"x 2-1/2" | 15-160 psi/0-250°F |
| <input type="checkbox"/> 60 PSIG 1-1/2"x 2" | 15-160 psi/0-250°F |
| <input type="checkbox"/> 75 PSIG 1-1/2"x 1-1/2" | 15-160 psi/0-250°F |
| <input type="checkbox"/> 80 PSIG 1-1/2"x 1-1/2" | 15-160 psi/0-250°F |
| <input type="checkbox"/> 100 PSIG 1-1/4"x 1-1/4" | 15-160 psi/0-250°F |
| <input type="checkbox"/> 125 PSIG 1-1/4"x 1-1/4" | 15-160 psi/0-250°F |
| <input type="checkbox"/> 150 PSIG 1-1/4"x 1-1/4" | 15-160 psi/0-250°F |

| A.S.M.E. SECTION IV DESIGN DATA | ST-5000 | ST-6000 |
|--|------------------------|---------|
| Max Pressure | 160 PSIG | |
| Max Allowable Temperature | 210°F | |
| Max Setpoint | 185°F | |
| Heated Wet Surface Area | 448.67 ft ² | |
| Flow Rate @ 20°FΔT | 470 GPM | 564 GPM |
| Min Flow Rate @ All Firing Rates (Flow Switch Setting) | 134 GPM | 161 GPM |

| RECOMMENDED CLEARANCE FOR SERVICE ACCESS | | | | |
|--|------------|-----------|-----------------|-----------------|
| Front - 24" | Rear - 12" | Top - 36" | Left Side - 18" | Right Side - 0" |

Notes:
 - Victaulic is a registered trademark of Victaulic Company, Easton PA, USA
 - Patterson-Kelley reserves the right to make changes at any time without notification